User Group/PI: Flight Path			Experiment No	
	a.	Foreign Nationals i. DIVA approvals complete ii. Building access		
	b.	iii. Sensitive countries checklistElectronics Usagei. Computing and Personal Electronic form1. Non-U.S. Government Owned Contr		
		 LANL Visitor Network User Author On-Site Non-LANL But Governmen 	ization, Form 1861	
	c. Export Control and Proprietary Informationi. Work for Homeland Security, DoD, private companiesii. Deemed exports		ate companies	
	d.	Important phone numbers i. Emergency	911	
		ii. Central Control Room (CCR)iii. Radiation Control Techs (RCT)	(505) 667-5729 (505) 667-7069	
		iv. Flight Path		
		v. Data Roomvi. Other Phone #'s1. Flight Path Scientist2. Group Office	(505) 667-5377	
		3. Steve Wender (WNR Area Manager)	(505) 667-1344 (office) / (505) 664-2185 (pager) / (505) 660-6458 (cell) / (505) 983-3634 (home)	
		 Paul Lewis (Lujan Area Manager) Ron Nelson (Deputy Group Leader) Leo Bitteker (Operations Team) 	(505) 665-0932 (office) / (505) 664-5344 (pager) (505) 667-7107 (office) / (505) 664-2191 (pager) (505) 667-0333 (office) / (505) 664-7996 (pager)	
		 7. Technician vii. Making phone calls 1. Use last 5 digits of LANL numbers for 2. Dial 8 for outside line 	for on-site calls (e.g. 7-xxxx)	
	e.	After Hours Access i. Gate Operation 1. Everyone must swipe badge for entry	wait for gate to close before pushing button	

ii. Contact CCR for immediate assistance

f. Restrooms

- g. Eating
 - i. Location of cafeterias
 - ii. Designated eating areas
 - 1. No radioactive or other hazardous materials in eating areas
 - 2. No soldering permitted in eating areas
 - iii. Areas where food is not permitted
- h. Start Actual Run in User Office visitor database

2 SAFETY

- a. Safety Review Worksheet Must be reviewed and approved prior to start of experiments
- b. Experiment Changes require approval of Flight Path Scientist
- c. Minimum Training for Visiting Users (provided by LANSCE Training Office)
 - i. Standard user training
 - 1. Course 39486 TA-53 User Facility Specific Training
 - 2. Course 31744 TA-53 Building Emergency Plan Program
 - ii. Radiological Worker Training

For users needing access to ER2 only:

1. Course 15506 – General Employee Radiological Training

For external users needing unescorted access to Radiological Controlled Areas:

- 1. Course 24856 TA-53 Radiological Worker Practical
- 2. Course 12909 Radiological Worker Exam

For internal (LANL) users needing unescorted access to Radiological Controlled Areas:

- 1. Course 20301 Radiological Worker II Classroom
- 2. Course 12910 Radiological Worker Practical
- 3. Course 12909 Radiological Worker Exam

For users working with chemicals or cryogenic fluids:

- iii. Course 25997 Chemical Hazard Communication Introduction Training
- iv. Other training requirements
- d. Radiation Control
 - i. Dosimetry requirements
 - 1. TLD
 - 2. PN-3
 - ii. Radiation levels
 - 1. Postings
 - 2. Do not linger near beam pipes
 - iii. Radioactive materials
 - 1. Inventory of user radioactive sources and parts
 - 2. All radioactive materials must be kept in a controlled area
 - 3. All radioactive materials must be properly labeled
 - iv. Transport of radioactive materials
 - 1. On-site hand carry
 - 2. Off-site require special shipping procedures and authorization
 - 3. Do not transport by motorized vehicle
 - v. Removal of items from flight path
 - 1. RCT survey requirements
 - 2. Use of "possibly radioactive" stickers

e. Hazardous Materials

- i. Use and storage of hazardous materials
 - 1. Inventory of user supplied chemicals and hazardous materials
 - a Confirm materials are noted on Experiment Safety Review Worksheet
 - b Materials on-site for longer than 1 week must be added to ChemLog
 - 2. Store flammables in flammables cabinet when not in use
 - 3. No hazardous materials permitted in designated eating areas
- ii. Transport of hazardous materials
 - 1. On-site hand carry
 - 2. Off-site require special shipping procedures and authorization
 - 3. Do not transport by motorized vehicle
- d. Waste Generation and Disposal
 - i. Minimize waste generation
 - ii. Segregate waste types
 - 1. Radioactive waste trash cans
 - 2. Disposal of hazardous waste
 - 3. No hazardous or radioactive waste in "clean" trash
- f. Electrical Equipment Checkout
 - i. UL-listed, or equivalent
 - ii. ESO evaluation of unlisted equipment
- g. Emergency procedures
 - i. Evacuate to a safe area
 - ii. Dial 911

3. USER ORIENTATION

- a. IWD Pre-job Briefing (for users not already briefed)
 - i. Review IWD
 - ii. Address any questions or issues
 - iii. User signs Part 3
 - iv. Keep signed IWD at flight path during experiment for user reference
 - v. Return Part 3 at completion of experiment
- b. Radiation Safety System (EPACS or PSS)
 - i. Walk down of flight path instrument cave
 - ii. Review of Sweep and Entry procedure
 - iii. User demonstrates Sweep Procedure
 - iv. User demonstrates Entry Procedure
- c. Other Flight Path Operations (as applicable)
 - i. Experimental setup: Collimation, absorbers, detectors, changes, etc.
 - ii. Radioactive sources and samples
 - iii. Use of laser alignment
 - iv. Fission chamber cover
 - v. Liquid nitrogen and cryogenic systems
 - vi. Electronics
- d. MPF-66 Key Usage and Responsibility
 - i. One key shared by experimenters
 - ii. Return key to flight path scientist at end of experiment

- e. Camera Usage Policy, Notice 184
 - i. Use Group camera
 - ii. Flight Path Scientist must review photos before releasing
 - iii. Signature on OJT roster authorizes users to use Group camera
- f. Experiment Closeout and Departure
 - i. Handling equipment and materials at completion of experiment
 - 1. Parts known to have been in the beam
 - a Must be surveyed or labeled with survey-pending stickers
 - b Must be kept in a controlled area until determined releasable by an RCT survey
 - c May be shipped by Packaging & Transportation personnel as a radioactive shipment
 - 2. Parts in the flight path EPACS/PSS boundary while beam on
 - a Must be treated as radioactive until survey confirms otherwise
 - b Must be surveyed prior to release
 - c Usually releasable immediately following survey
 - 3. Parts never in the flight path EPACS/PSS boundary while beam on
 - a Do not need to be surveyed
 - b No restrictions on release
 - ii. Return of user equipment
 - 1. Provide return address
 - 2. Method of shipment and account number
 - iii. Return LANL visitor badge and dosimeters
 - 1. US Citizen
 - a Drop in badge drop-box at guard station
 - b Return to flight path scientist
 - c Return to reception desk in MPF-1
 - 2. Foreign National
 - a Return to flight path scientist
 - b Return to TA-3 Badge Office
 - c Drop in badge drop-box at guard station (not preferred)
 - iv. Stop Actual Run in User Office visitor database

On-the-Job Training Record of Completion Nuclear Science Flight Path User Orientation

LANSCE-NS Flight Path _	EDS co	ourse #				
Topics Covered: a. IWD Pre-Job Briefin	ng					
- General Flight	- General Flight Path IWD Pre-Job Briefing, IWD#					
- Experiment-specific IWD Pre-Job Briefing, IWD# b. Radiation Safety Systems – Sweep and Entry Procedures c. Other Flight Path Operations Experimental setup: Collimation, absorbers, detectors, changes, etc. Radioactive sources and samples Use of laser alignment Fission chamber cover Liquid nitrogen and cryogenic systems Electronics Electronics MPF-66 Key Usage and Responsibilities Camera Usage Policy, Notice 184 Experiment Closeout and Departure Trainer						
	uirements for use of	on the information in the LANSCE-North fight path facility, I am aware of answered to my satisfaction.				
Printed Name	Z#	Signature	Date			